PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 21101.0048P1	FOR FURTHER ACTION	See item 4 below
International application No. PCT/US2005/002059	International filing date (day/month/year) 21 January 2005 (21.01.2005)	Priority date (day/month/year) 21 January 2004 (21.01.2004)
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237	
Applicant UNIVERSITY OF UTAH RESEARG	CH FOUNDATION	

1.	This international preliminary re International Searching Authorit	port on patentability (Chapte y under Rule 44 <i>bis</i> .1(a).	er I) is issued by the International Bureau on behalf of the
2.	This REPORT consists of a total	of 4 sheets, including this co	over sheet.
	In the attached sheets, any refere to the international preliminary r	nce to the written opinion of eport on patentability (Chapt	the International Searching Authority should be read as a reference ter I) instead.
3.	This report contains indications i	relating to the following item	is:
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	1
	Box No. V	Reasoned statement under applicability; citations and	Article 35(2) with regard to novelty, inventive step or industrial devaluations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the inter	rnational application
	Box No. VIII	Certain observations on th	e international application
4.	The International Bureau will connot, except where the applicant mate (Rule 44bis .2).	nmunicate this report to desi nakes an express request und	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 24 July 2006 (24.07.2006)
	The International Burea		Authorized officer
	34, chemin des Colombettes 1211 Geneva 20, Switzerland Dorothée Mülhausen		Dorothée Mülhausen

e-mail: pt01@wipo.int

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

REC'D	11	NOV	2005
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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARC	HING AUTHOR	TTV				
INTERNATIONAL SEARCHING AUTHORITY To: CHRISTOPHER L. CURFMAN NEEDLE & ROSENBERG, P.C. SUITE 1000		PCT				
999 PEACHTREE STREET ATLANTA, GA 30309-3915			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
				(PCT Rule 43bis.1)		
			Date of mailing (day/month/year)	0 9 NOV 2005		
Applicant's or agent's file	reference		FOR FURTHE	R ACTION See paragraph 2 below		
21101.0048P1 International application N	0. 17	nternational filing date	(day/month Ayear)			
PCT/US05/02059	-	1 January 2005 (21.01.		Priority date (day/month/year)		
International Patent Classif	ication (IPC) or b	oth national classification	on and IPC	21 January 2004 (21.01.2004)		
IPC(7): C07K 14/00; C12N Applicant	5/10, 15/00, 15/	11, 15/63; C12Q 1/68 a	and US CL: 435/6,	59.1, 320.1, 325; 530/350; 536/23.5; 800/2		
UNIVERSITY OF UTAH	RESEARCH FOI	INDATION		·		
1. This opinion contains i	ndications relatin	g to the following item	3:			
Box No. I	Basis of the opi	inion				
Box No. II Priority						
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			entive step and industrial applicability			
Box No. IV	Box No. IV Lack of unity of invention					
Box No. V	Reasoned stater applicability; ci	nent under Rule 43 <i>bis.</i> tations and explanation	(a)(i) with regard t s supporting such s	o novelty, inventive step or industrial tatement		
Box No. VI	Certain docume	ents cited	•			
Box No. VII	Certain defects	in the international app	lication			
Box No. VIII	Certain observa	tions on the internation	onal application			
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
of Form PCT/ISA/220	gether, where apport before the expire	propriate, with amendariation of 22 months from	ents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.		
For further options, see	Form PCT/ISA/2	20.		<u>-</u>		
3. For further details, see r	notes to Form PC	T/ISA/220.				
Name and mailing address of	of the ISA/ US	Date of completi	on of this opinion	Authoritied officer		
Mail Stop PCT, Attn Commissioner for Pa	: ISA/US itents	01 October 2005	(01.10.2005)	Michael Pak / Wallson		
P.O. Box 1450 Alexandria, Virginia				Telephone No. 571-272-1600		
Facsimile No. (703) 305-323		_,_				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/02059-

Box N	lo. I Basis of this opinion	_
		-
1. With	regard to the language, this opinion has been established on the basis of:	
	the international application in the language in which it was filed	
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).	
2. With inven	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:	
а.	type of material	
	a sequence listing	
	table(s) related to the sequence listing	
ъ.	format of material	
	on paper	
	in electronic form	
c.	time of filing/furnishing	
	contained in the international application as filed.	
	filed together with the international application in electronic form.	
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additio	onal comments:	1
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (April 2005)

International application No. PCT/US05/02059

applicability; citations and expl Statement					
Novelty (N)	Claims	1-88_			Y
	Claims	NONE			N
Inventive step (IS)	Claims	1_22			
,	Claims				YI NO
Industrial applicability (IA)	Claima	1 00			
———— approximity (111)	Claims Claims				YE
Carata and a same and					
Stations and explanations:	22/2\ (2\ hann				
ms 1-88 meet the criteria set out in PCT Article ntion.	33(2)-(3), becau	ise the prior art d	oes not teach	I OT fairly sugg	est the claimed
ms 1-88 meet the criteria set out in PCT Article hade or used in industry.	33(4), and thus r	meet industrial a	pplicability	because the su	bject matter claimed c
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